

## IN THE CLAIMS

1. (Original) A method of communicating with a mass storage device, comprising:
  - receiving ATA/ATAPI signals from a mass storage device into a bridging circuit;
  - converting the ATA/ATAPI signals from the mass storage device into USB signals using the bridging circuit; and
  - outputting the USB signals from the bridging circuit.
2. (Original) A method according to claim 1, wherein the bridging circuit is provided in a single, bridging chip.
3. (Original) A method according to claim 1, wherein the bridging circuit is provided on a motherboard of the mass storage device.
4. (Original) A method according to claim 1, wherein the bridging circuit is provided on a secondary board.
5. (Original) A method according to claim 4, wherein a mass storage device motherboard outputs ATA/ATAPI signals, and wherein the secondary board receives the ATA/ATAPI signals from the mass storage device motherboard and converts them into USB signals.
6. (Original) A motherboard for a mass storage device, said motherboard comprising:
  - input logic configured to receive an input signal from a read unit of the mass storage device;
  - a bridging circuit configured to receive the input signal from the input logic and convert the input signal into a USB signal; and
  - output circuitry configured to output the USB signal from the motherboard.

7. (Original) A mass storage device motherboard according to claim 6, wherein the bridging circuit comprises a bridging chip for converting the input signal into the USB signal.

8. (Original) A mass storage device motherboard according to claim 6, wherein the bridging chip comprises:

- an ATA/ATAPI interface configured to receive ATA/ATAPI signals from the input logic;

- a disk interface configured to receive ATA/ATAPI signals from the ATA/ATAPI interface;

- a serial interface engine; and

- a USB physical interface transceiver configured to receive signals from the serial interface engine and output USB signals to a USB interface.

9. (Original) A secondary board configured to enable communication between a mass storage device motherboard and a host motherboard, said secondary board comprising:

- a connector port for receiving signals from the mass storage device motherboard;

- a bridging circuit for converting signals from the mass storage device motherboard into USB signals; and

- a USB connector port for outputting the USB signals to the host motherboard.

10. (Original) A secondary board according to claim 9, wherein the bridging circuit comprises a bridging chip configured to translate the signals from the mass storage device motherboard into USB signals.

11. (Original) A secondary board according to claim 10, wherein the bridging chip comprises a USB physical interface transceiver, a serial interface engine, and a disk interface.

12. (Original) A secondary board according to claim 11, wherein the disk interface receives ATA/ATAPI signals through an ATA/ATAPI interface, and wherein the ATA/ATAPI signals are converted into USB 2.0 signals and are output to a USB Interface through the USB physical interface transceiver.

13. (Original) A bridging chip comprising:  
an input configured to receive ATA/ATAPI signals;  
conversion logic configured to convert the ATA/ATAPI signals into USB signals; and  
an output configured to output the USB signals.
14. (Original) A chip according to claim 13, wherein said input comprises an ATA/ATAPI interface arranged to receive the ATA/ATAPI signals and a disk interface configured to receive ATA/ATAPI signals from the ATA/ATAPI interface; wherein said conversion logic comprises a serial interface engine and a USB physical interface transceiver, said interface transceiver being configured to receive signals from the serial interface engine and output USB signals to a USB interface.
15. (Original) A chip according to claim 13, wherein the chip is located on a mass storage device motherboard.
16. (Original) A chip according to claim 13, wherein the chip is located on a secondary board.
17. (Original) A chip according to claim 16, wherein the secondary board is arranged to receive ATA/ATAPI signals from a motherboard of the mass storage device.
18. (Original) A method of converting signals from a mass storage device into USB signals, said method comprising:  
receiving a signal from a mass storage device into a bridging chip;  
converting the signal from the mass storage device into a USB signal;  
outputting the USB signal from the bridging chip.
19. (Original) A method of converting signals according to claim 18, wherein said bridging chip is located on a motherboard of the mass storage device.
20. (Original) A method of converting signals according to claim 18, wherein the bridging chip is located on a secondary board arranged in communication with a motherboard of the mass storage device.